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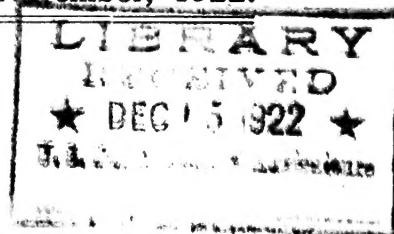
MONTHLY LETTER OF THE BUREAU OF ENTOMOLOGY
UNITED STATES DEPARTMENT OF AGRICULTURE

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TRUCK CROP INSECT INVESTIGATIONS

F. H. Chittenden, Entomologist in Charge



C. H. Popenoe, J. E. Dudley, jr., R. E. Campbell, and J. E. Graf attended the pea aphid conference in Chicago at the Sherman Hotel, November 9 and 10, for the purpose of arranging cooperative work on the insect in the interest of State entomologists. The conference was largely attended by State entomologists and representatives of canners. As a result of the meeting, recommendations governing future work on this insect were drawn up and endorsed by both entomologists and canners. Present plans contemplate establishing a large laboratory in one of the central States and cooperative tests with various State entomologists in all important pea-growing sections.

C. H. Popenoe returned from an inspection trip in the Estancia Valley in New Mexico where he conducted observations and made preliminary plans for work on the Mexican bean beetle. Arrangements were made for overwintering the beetles in outdoor cages under varying mountain conditions and for securing data the coming season on winter mortality and dispersal of marked beetles from hibernation cages. Mr. Popenoe found that because of the extreme drought in that region the insect had not gone into hibernation as early as in previous years, and had become concentrated in localities not previously seriously infested. Because of the ravages of the beetles and of the improbability of securing a crop, the bean growers have been instructed to pasture off all bean lands containing growing plants, thereby reducing the number of the beetles successfully hibernating and, consequently, the next year's infestation.

R. E. Campbell visited Washington for conference with Bureau officials before attending the pea aphid conference at Chicago.

E. G. Smyth, who has spent the summer in Mexico collecting parasites of the Mexican bean beetle, has recently returned to this country, and is now in Birmingham, Ala., discussing his season's work with N. F. Howard.

N. F. Howard reports that he has quite a number of the Mexican parasites of the Mexican bean beetle in hibernation cages and hopes to be able to carry these successfully through the winter.

A conference will be held at Agricultural College, Miss., November 27, 28, and 29, to consider additional steps to be taken in the eradication of the sweet-potato weevil in southern Mississippi. This conference will be attended by K. L. Cockerham, F. A. Wright, Troy Thompson, and F. R. White, of this Bureau, and State officials.

FRUIT INSECT INVESTIGATIONS

A. L. Quaintance, Entomologist in Charge

John B. Gill, in charge of the Bureau's laboratory at Aberdeen, N. C., was in Washington for a short time and has now returned to his headquarters at Aberdeen.

Dr. H. L. Dozier, in charge of the Bureau's camphor scale project, with headquarters at New Orleans, La., was in Washington for conference and has now returned to New Orleans to resume his field work.

SOUTHERN FIELD CROP INSECT INVESTIGATIONS

J. L. Webb, Entomologist Acting in Charge

Dr. W. D. Hunter visited the Washington office twice during the month, returning each time to his field headquarters at Houston, Tex.

B. R. Coad, R. C. Gaines, and A. J. Chapman, of the Tallulah Laboratory, also spent several days in Washington.

T. E. Holloway, of New Orleans, has made a preliminary investigation of a recently discovered infestation of the gray mealybug on sugar cane in the vicinity of Cairo, Ga. One of his assistants, J. W. Ingram, is continuing the investigation.

H. M. Brundrett has returned to his station at Dallas, Tex., from Middletown, N. Y., where he assisted Mr. Wells in work on the ox warble during the summer.

STORED PRODUCT INSECT INVESTIGATIONS

E. A. Back, Entomologist in Charge

A. O. Larson, of the bean weevil investigations, Alhambra, Calif., has been in Washington since November 20 for reference work and the preparation of manuscripts.

R. T. Cotton recently investigated the Angoumois grain moth situation in Salem County, N. J., and in and about Charlottesville, Va. Wheat thrashed late in the season in these localities was very badly damaged. These examinations were a continuation of those made by Doctor Back and Mr. Cotton on the farms of Montgomery County, Md. In Montgomery County late-thrashed wheat was frequently found damaged from 40 to 90 per cent, while wheat thrashed directly after harvest showed less than 1 per cent infestation.

S. E. McClendon and E. A. Vaughan, connected with the corn weevil investigations at Thomasville, Ga., spent a week in Washington.

Albert H. Amis, who recently resigned from the bean weevil investigations at Alhambra, Calif., has been appointed collaborator. Mr. Amis is located at the Los Mochis Agricultural Experiment Station, maintained by the vegetable growers of the Fuerte Valley, Sinaloa, Mexico, of which Dr. A. W. Morrill is director. Mr. Amis's address is Apartado 36, Los Mochis, Sinaloa, Mexico.

LIBRARY

Mabel Colcord, Librarian

New Books

- Brittain, W. H. The present distribution and economic status of the apple sucker (Psyllia mali Schmidberger)... Scientific Agriculture, Ottawa, v. 3, no. 1, p. 23-29, Sept., 1922.
- Brittain, W. H. The adult habits of the apple sucker (Psyllia mali Schmidberger). Scientific Agriculture, v. 3, no. 2, Oct., 1922.
- Folsom, J. W. Entomology with special reference to its ecological aspects. Ed. 3, revised. Philadelphia, P. Blakiston's Son & Co., (1922). 502 p., illus. Literature, p. 430-477.
- Hawley, I. M. Insects and other animal pests injurious to field beans in New York. Ithaca, N. Y., May, 1922. p. 945-1037, illus., LXIX-LXXI. (Cornell Univ. Agr. Expt. Sta. Memoir 55.)
- Hedicke, H. Beiträge zu einer monographie der palaarktischen Isosominen (Hym., Chalc.). Berlin, Nicolaische Verlags-Buchhandlung R. Stricker, 1921. 167 p., illus. (Abdruck aus dem "Archiv für Naturgeschichte," 86 Jahrg., 1920, Abt. A, Hft. 11.)
- Hirst, Stanley. Mites injurious to domestic animals, with an appendix on the acarine disease of hive bees. London, Printed by order of the trustees of the British Museum, 1922. 107 p., illus. (British Museum (Natural History) Econ. ser. no. 13.) Literature, p. 104.
- Horst, Albert. Untersuchungen über Agriotes obscurus L. (Ein beitrage zur kenntnis der biologie und morphologie der Elateriden und ihrer larven)... Berlin, Nicolaische Verlags-Buchhandlung R. Stricker, 1922. 90 p., illus., 3 pl. Literaturverzeichnis: p. 33-90. Inaugural-dissertation zur erlangung der doctorwurde genehmigt von der philosophischen fakultät der Friedrich-Wilhelms-Universität zu Berlin.
- Kuwana, Inokichi. Studies on Japanese Monophlebinae. Contribution I-II. Yokohama, 1922 (Dept. of Agr. & Commerce, Imperial Plant Quarantine Station. Bulletin 1-2, March & August, 1922) I. The genus Warajicoccus. 58 p., 12 pl. (part. col.) August, 1922. II. The genus Icerya. 43 p., 4 pl. (part. col.) March, 1922.

- Murphy, Helen E., Notes on the biology of some of our North American species of May-flies, Cincinnati, O., J. U. & C. S. Lloyd. 46 p., plates (Bul. Lloyd Library of Botany, Pharmacy & Materia Medica... No. 22, (Ent. Ser. No. 2.)
- Tothill, J. D. Natural control of the fall webworm (Hyphantria cunea Drury) in Canada, together with an account of its several parasites. Ottawa, 1922. 107 p., illus. (Canada Dept. Agr. Bul. 3, new ser. Technical (Ent. Bul. 19.)
- Veitch, Robert. The white grubs of the sugar cane soils of Fiji. Sydney, March, 1922. 14 p., 4 plates. (Colonial Sugar Refining Company, Agricultural Report No. 5.)
- Waterston, James. The louse as a menace to man. Its life history and methods for its destruction. London, Printed by order of the Trustees of the British Museum, 1921. 20 p., illus. (British Museum (Natural History) Publication, Economic ser. No. 2.)

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